

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED.**

(MCQ – Pattern)

SYLLABUS

GEOGRAPHY

B.A. FIRST YEAR

SEMESTER PATTERN

With effect from June, 2011

Geography B A F Y

Semester	Paper No.	Title of Paper	Marks	Periods per week
Sem I	I	Introduction to physical Geography	50 40+10(Int)	*05
Sem II	II	Climatology	50 40+10(Int)	*05
Sem I & II	III	Practical's in Geography Practical Paper –I Practical Paper - 2	50 50	*03(Per Batch) *03(Per Batch)

* In old pattern there were two theory papers and one practical whereas in new pattern one theory paper and one practical paper containing two practicals have been introduced. Part of old theory paper is diverted in practical and some part in theory paper. Therefore teaching work load will be of five periods for theory and six periods (3+3) for practical.

Internal Examination pattern for theory paper : Two tests of five marks each.

1. Strength of students for each practical batch for each paper shall not be more than 20 (Twenty).
2. Submission of certified journal and village/ City/tour visit report is Compulsory.
3. Students shall not be allowed for practical examination without certified journal .
4. Total periods for each theory paper shall be 60 per semester.
5. Total periods for each practical paper of 50 marks shall be 90 per year.
6. Practical examination will be held in Second Semester.

B.A. First Year

Semester – I

Paper – I

Introduction to Physical Geography

Unit – I	12 periods
a. Definition, Nature and scope of physical geography	
b. Origin of solar system - One Star Hypothesis, Two Star Hypothesis, Solar system	
c. Earth's rotation and revolution and it's effects.	
Unit – II	12 periods
a. Interior of the earth – crust, mantle and core	
b. Wegner's theory of Continental Drift	
c. Rocks : Types, Origin and Composition	
Unit – III	12 periods
Geomorphic Processes :	
Exogenic processes – weathering, erosion, transportation and deposition	
Unit – IV Endogenetic processes :	12 periods
a. Slow processes – Epeirogenic and Orogenic	
b. Sudden processes – Earthquakes and Volcano	
Unit – V Geomorphic Agents :	12 periods
a. Agents of geomorphic processes and resulting landforms	
i) River, ii) Glacier, iii) Wind, iv) Underground water and v) Sea waves.	

Reference Books :-

1. Dayal P.A. : Text book of Geomorphology
2. Dury, G.H. : The face of the Earth
3. Emst, W.G : Earth systems
4. ICSSR : A survey of Research in physical Geography
5. Kale V. and Gupta A. : Elements of Geomorphology
6. Monkhouse F.J. : principles of physical Geography
7. pitty A. : Introduction to Geomorphology
8. sharma H.S. : Tropical Geomorphology
9. Singh S. : Geomorphology
10. Small R.J. : The study of Land forms
11. Sparks B.W. : Geomorphology
12. Steers J. A. : The Unstable Earth, Some recent views in
Geography
13. Strahler A.N. : Environmental Geo-Science
14. Strahler A. N. and : modern physical Geography
Strahler A. N.
15. Summerfield M. A : Global Geomorphology
16. Thornbury W. D. : Principals of Geomorphology
17. Wooldridge S.W. : The Physical Basis of Geography – An outline of
And Morgan R.S. Geomorphology
18. Wooldrige S.W. : The Geographer as Scientist
19. R.N. Tikka : Physical Geography

Other Readings:

1. भूरूपशास्त्र : डॉ. मोहन दत्तात्रय तावडे
2. सामान्य व भौतिक भूशास्त्र : डॉ. अ. वि. उळाभाजे
3. भूरूपशास्त्राची मूलतत्त्वे : डॉ. जयकुमार मगर
4. प्राकृतिक भूगोल : प्रा. शेते, प्रा. फुले, प्रा. शहापूरकर
5. प्राकृतिक भूगोल : डॉ. मोहन दत्तात्रय तावडे
6. प्राकृतिक भूगोल : प्रा. सु. प्र. दाते
7. भूआकृति विज्ञान : यादव जी. पी. आर. रामसुरेश

B.A. First Year

Semester – II

Paper : II

CLIMATOLOGY

Unit – I , **12 periods**

- a) Definition, Nature and Scope of Climatology
- b) Composition and Structure of the atmosphere

Unit – II **12 Periods**

- a. Atmospheric temperature – Insolation and factors affecting on it, heat balance of the earth, vertical and horizontal distribution of temperature.
- b. Atmospheric pressure – Vertical and horizontal distribution of pressure.
- c. Types of winds - Planetary, periodic and local winds.

Unit – III **12 Periods**

- a) Types and forms of Humidity, evaporation and condensation
- b) Types of precipitation, concept of monsoon and distribution of rainfall in India.
- c) Air Masses: Classification and properties.
- d) Tropical and temperate cyclones

Unit – IV Major climates of the world **12 Periods**

- a) Tropical b) Temperate and c) Desert

Unit – V **12 Periods**

- a) Global warming b) Greenhouse effect c) Ozone depletion

Reference Books :

- 1) Barry, R.G. and chorely R.J. : Atmosphere, Weather and Climate, Routledge, 1998.
- 2) Critchfield ,H : General Climatology, Prentice – Hall, New York, 1975.
- 3) Das,P.K : The Monsoons, National Book Trust, New Delhi, 1968.
- 4) Mather,J.R : Climatology, Mc Graw –Hill,New York, 1974.
- 5) Patterson,S ; Introduction to Meteorology,McGraw – Hill Book Co, London, 1959.
- 6) Trewartha, G.T. An Introduction to Climate, International students edition McGraw – Hill, New york 1980.

Other Readings :-

- 1) शेठे एस.टी. :- हवामानशास्त्र व सागर विज्ञान
- 2) कोलते के.टी :- हवामानशास्त्र
- 3) मगर जयकुमार :- हवामानशास्त्र

B.A.First Year
Paper III
Practicals in Geography
Semester- I & II
Practical Paper – I
Semester - I

Unit – I

20 Periods

- a. Representation of scale : i. Liner, R.F. and statement
- b. Conversion of Scale : R.F. To verbal and Verbal to R.F.
- c. Construction of scale
 - i. Simple, Time and Distance scale

Unit – II

20 Periods

- a. Methods of showing relief: Hachures, Shading, layer tints, contours, bench mark, spot height and trig point.
- b. Representation of different landforms by contours
- c. Slopes, Conical hill, Plateau, Ridge, Pass, Cliff, 'U' shaped valley, 'V' shaped valley and Spur.

Practical Paper – I

Semester- II

Unit – III

20 Periods

Study of survey of India topographical maps

- a. Conventional signs and symbols
- b. Interpretation of SOI topo-sheets of hilly, Plateau and plain area in respect of
(i) Relief, (ii) Drainage, (iii) Settlement and (iv) Communication

Unit – IV

20 Periods

Use of Line and Bar graph for representing population, agriculture, industry and transport data.

- a. Line Graph – Simple and multiple
- b. Bar Graph – Simple, compound and multiple (Vertical)

Unit – V

10 Periods

Field Work :

Organise one day field visit to collect field data. Field work report should be prepared based on collected data and it should be submitted in practical examination. Main objective of the field work is to provide the students with the understanding of ground reality of a chosen site i.e. village/town/tourist site by observation. One aspect such as geomorphic forms and processes, landuse, irrigation, economic activities, village morphology, population characteristics etc. should be selected for field work.

Note :

1. Strength of students for each Practical batch shall not be more than **20 (twenty)**.
2. Student shall **not** be **allowed** for practical examination **with out certified journal** and **filed visit report**.
3. Total periods for each practical paper of **50** marks shall be **90** per year.
4. Practical examination will be held in second semester.

Reference Books:

1. Khan Z.A. : Text Book of Practical Geography
2. Lawrence, G.R.P. : Cartography methods
3. Mishra, R.P.& Ramesh A. : Fundamentals of Cartography
4. Monkhouse, F.J. & Wilkinson H.R. : Maps and Diagrams
5. Sarkar, A.K. : Practical Geography a Systematic approach
6. Singh R.L. : Elements of practical geography

Other Readings :

1. प्रायोगिक भूगोल : शर्मा जे. पी.
2. प्रात्यक्षिक भूगोल : डॉ. आहिरराव डी. वाय व प्रा. करंजखेले इ. के.

**B.A. First Year
Paper - III
PRACTICALS IN GEOGRAPHY
Semester I & II
Practical Paper – II
Semester – I**

Total Periods :90

Unit : I Climatic graphs and diagrams **20 periods**
1. Line graph, Bar graph (simple and multiple.)
2. Climograph.
3. Hythergraph.
4. Star diagram

Unit : II Weather Instruments (mechanism, function and use) **30 periods**
1. Minimum and maximum thermometer.
2. Dry and wetbulb thermometer.
3. Hair - hygrometer.
4. Aneroid Barometer.
5. Rain gauge.
6. Wind - vane.
7. Cup Anemometer.

**Paper –II
Semester - II**

Unit : III Study of Indian daily weather reports (maps) **20 periods**
1. Weather signs and symbols.
2. Shapes of Isobars on weather maps
a) Cyclone
b) Anticyclone
c) Secondary depression.
d) 'V' shaped depression (Trough of low pressure)
e) Wedge
f) Col.
3. Interpretation of Indian Daily Weather maps one each from winter summer and rainy season.

Unit IV

20 periods

1. Pyramid diagrams for the representation of population data.
 - a) Simple pyramid
 - b) Compound pyramid.
 - c) Superimposed pyramid.
2. Degree of dispersion of rural settlements by Demangaon and Debouveries.
3. Centrality index by W. Christaller.